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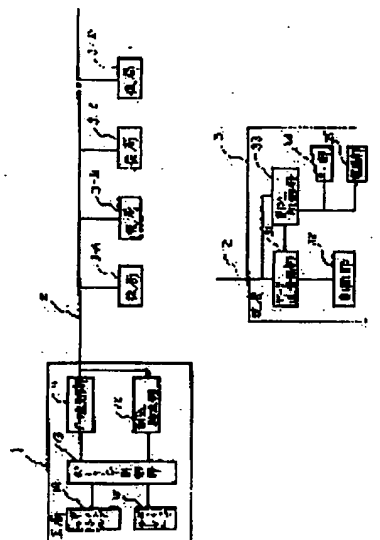
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### (54) DATA TRANSMISSION CONTROL SYSTEM

#### (57)Abstract

**PURPOSE:** To improve the utilizing efficiency of a transmission line by stopping polling to a slave station having a fault and whose operation is disabled and restarting the polling to the said slave station when an interruption request from the slave station exists.

**CONSTITUTION:** A polling control section 13 of a master station 1 extracts an address of a slave station 3 registered in a polling table 14 from the head in order. In extracting a slave station address 3-A, the master station transmits a polling signal 101 superimposed on the address to the slave station 3 via a data transmission/reception section 11 and a transmission line 2. The reception station 3-A receives a polling signal via a data transmission reception section 31 and a control section 32 confirms it to be a polling signal to the own station, and when no data to be transmitted to the master station 1 exists, the response representing no data is transmitted, and when the data exists, it is transmitted to the master station 1 via the data transmission/reception section 31 and the transmission line 2. Similarly, polling is executed for the next slave station similarly.



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(54) TITLE OF THE INVENTION :

DATA TRANSMISSION CONTROL SYSTEM

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(p. 221, left column, line 4 through line 13)

A data transmission control system for performing data transmission between a master station for performing control over a transmission channel, and a plurality of slave stations in branching connection with the same transmission channel by a polling method, wherein a polling against a slave station is terminated when the slave station whereto a polling is directed from the master station gets into a not-ready state, and wherein an interrupt signal is issued by a slave station when the slave station gets into a ready state, and the polling against the slave station is restarted by the interrupt signal being detected by the master station.

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